Shower Max Plug 400 Hz
Power Harness Modification Instructions

May 19, 1999

The following instructions provide the steps needed to recycle the Rabbit crate harnesses for use with the Shower Max crates on the Plug. There are 3 harnesses used for every Shower Max crate. Two connect to the type A supply and one connects to the type B supply

Care should be taken when choosing the harnesses to determine the correct length. There should be plenty to choose from, as the Shower Max crate will only use ½ the number of power supplies as did the Rabbit system. The wires need to be routed straight down though the top of the Shower Max crates between the shrouds of the backplane connectors to the power lugs on the backplane.

These harnesses were fabricated with *Anderson Powerpole* connectors at the power supply end and ring terminals at the crate end. The Powerpole connectors are modular by design and allow for removal of a given wire and its connector.

When removing a wire from the harness, remove the single pole modular connector from the cluster housing. This is done by removing the retaining pin from the housing and sliding off the desired connector and replacing the cluster back in the housing and reinstalling the retaining pins.

The Harness for the "A" type supply requires 2 harnesses, 1 for each connector on the power supply. These 2 identical harnesses will be reconfigured into A1 & A2, which will be different after the modification.

The harness wires connect to the 400 Hz supplies at one end and connects to the SMD Shower Max crate at two different locations.

1. The backplane.
2. The SMC Transition card using AMP high current connectors (Cable Harness A1).

A1 Cable Harness

Power Supply Connector Modification:

Remove the following wires by clipping them as close as possible at the rear of the insert within the cluster housing.

1. –5v (green #12)
2. GND (white #14)

Note: All remaining wires longer than 28 inches need to be trimmed to 28 inches and reterminated with either a ring terminal (+5v, GND) or an AMP contact #54329-1 (+15v, -15v).

Connection to Crate:

Connect with ring terminals to backplane power bugs.

1. +5v (yellow #12) connect to backplane, right most +5V terminal.
2. GND (white #12) connect to backplane, right most GND terminal.

Terminate into 2 Pos. AMP Connector #54489-2, using crimp contact #53892-4.

5. +15v (red)	Circuit 1.
6. -15v (black)	Circuit 2.

A2 Cable Harness

Power Supply Connector Modification:

Remove the following wires by clipping them as close as possible at the rear of the insert within the cluster housing.

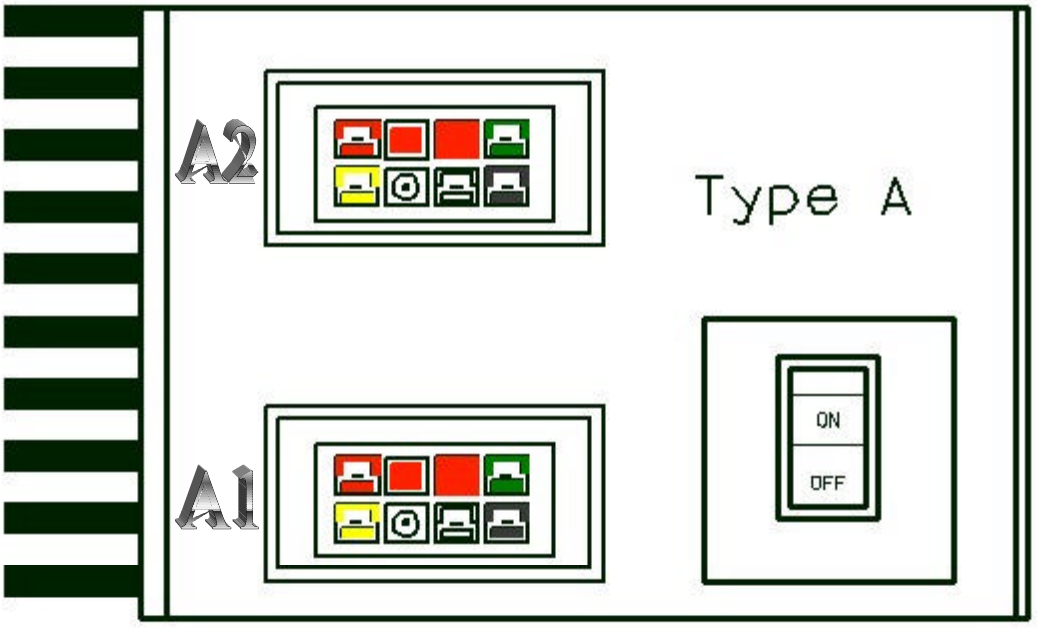
3. –5v (green #12)
4. +15v (red #12)
5. –15v (black #12)
6. GND (white #14)

Note: All remaining wires longer than 28 inches need to be trimmed to 28 inches and reterminated with a ring terminal (+5v, GND).

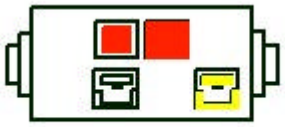
Connection to Crate:

Connect with ring terminals to backplane power bugs.

3. +5v (yellow #12) connect to backplane, left most +5V terminal.
4. GND (white #12) connect to backplane, left most GND terminal.



A1 Cable Harness



A2 Cable Harness

B1 Cable Harness

Power Supply Connector Modification:

Remove the following wire by clipping it as close as possible at the rear of the insert within the cluster housing.

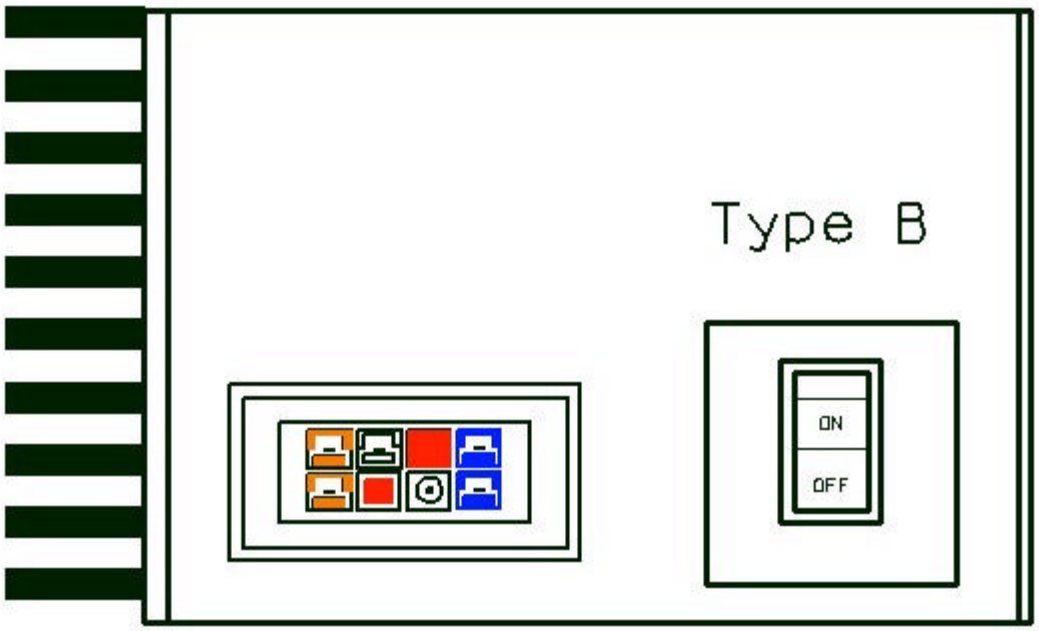
1. –8v (blue #12), the longer of the two blue wires.

Note: All remaining wires longer than 28 inches need to be trimmed to 28 inches and reterminated with a ring terminal

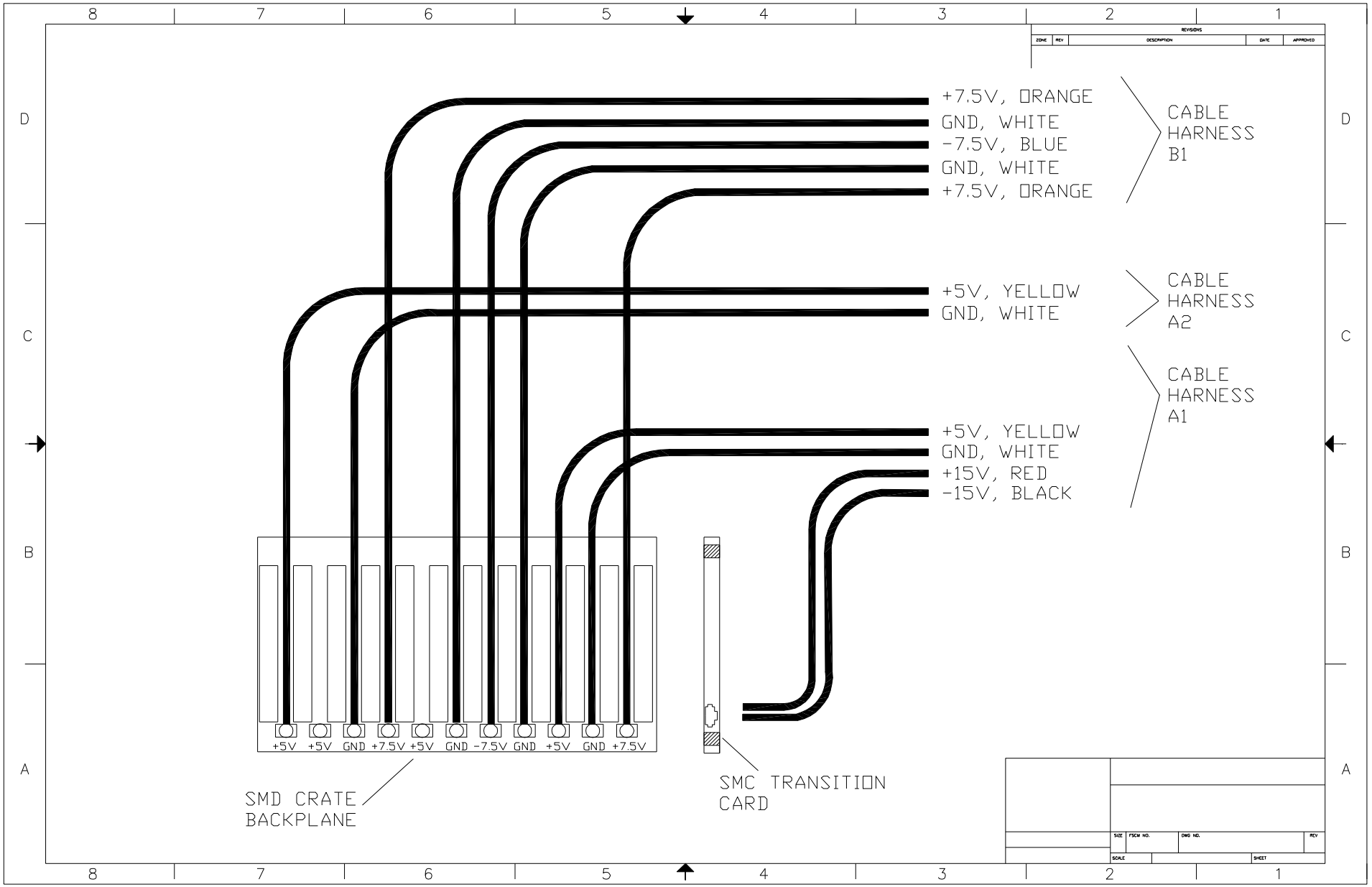
Connection to Crate:

Connect with ring terminals to backplane power bugs.

1. +8 (orange #12) connect to backplane, left most +7.5V terminal.
2. +8 (orange #12) connect to backplane, right most +7.5V terminal.
3. -8 (blue #12) connect to backplane, sole –7.5V terminal.
4. GND (white #12) connect to backplane, GND terminal to right of –7.5V terminal.
5. GND (white #12) connect to backplane, GND terminal to left of –7.5V terminal.



B1 Cable Harness


REVISIONS
ZONE
REV
DESCRIPTION
DATE
APPROVED
+7.5V, ORANGE
GND, WHITE
-7.5V, BLUE
GND, WHITE
+7.5V, ORANGE
CABLE HARNESS B1
+5V, YELLOW
GND, WHITE
CABLE HARNESS A2
+5V, YELLOW
GND, WHITE
+15V, RED
-15V, BLACK
CABLE HARNESS A1
+5V +5V GND +7.5V +5V GND -7.5V GND +5V GND +7.5V
SMD CRATE BACKPLANE
SMC TRANSITION CARD
SIZE
FSCM NO.
DWG NO.
REV
SCALE
SHEET